

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/078494 A3

(51) International Patent Classification⁷: **G02B 6/38**,
H01R 12/16

(21) International Application Number:
PCT/EP2005/000789

(22) International Filing Date: 25 January 2005 (25.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1025379 2 February 2004 (02.02.2004) NL

(71) Applicant (for all designated States except US): **FCI**
[FR/FR]; 145/147, rue Yves Le Coz, F-78000 Versailles
(FR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **VAN DER STEEN,**
Hendrikus, Petrus, Gijsbertus [NL/NL]; Listerstraat
60B, NL-5275 BW Den Dungen (NL).

(74) Agent: **REGI, Francois-Xavier**; 145/147, rue Yves Le
Coz, F-78000 Versailles (FR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

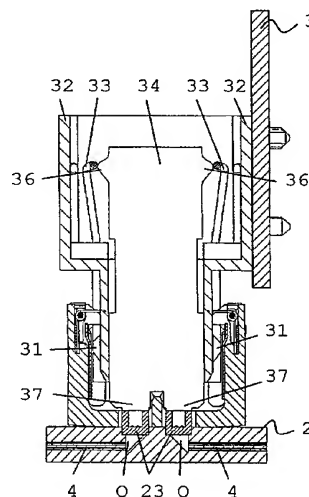
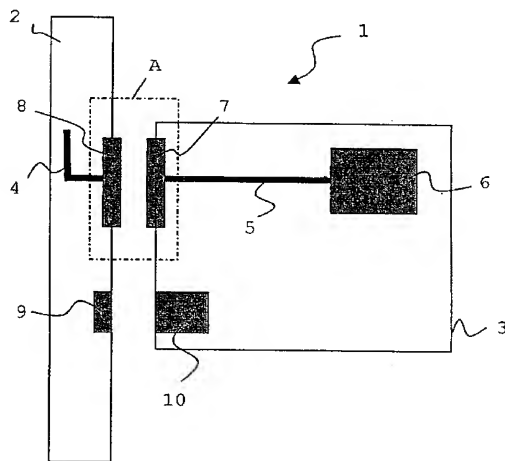
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

[Continued on next page]

(54) Title: OPTICAL CONNECTOR SYSTEM



(57) **Abstract:** The invention relates to an optical connector system (1) comprising a backpanel (2) and at least one substrate (3) having at least one substrate housing assembly (30) slidably mounted on the substrate and a first interface part (7) for establishing an optical interface. The backpanel (2) comprises an integrated second interface part (8) adapted to complete said optical interface and said substrate housing assembly (30) is adapted to provide relative movement of said substrate (3) with respect to said optical interface. One or more spring elements may provide the relative movement of the substrate with respect to the optical interface to complete the optical interface before electrical connections (9,10) are established. The substrate housing assembly (30) comprises an outer substrate housing (32), a biasing arrangement (33) and a further housing or insert (34). The biasing arrangement (33) may comprise a suitably shaped spring that is attached to the substrate housing (32). The spring (33) cooperates with a protrusion (36) of the insert (34).

WO 2005/078494 A3



(88) Date of publication of the international search report:
13 October 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.